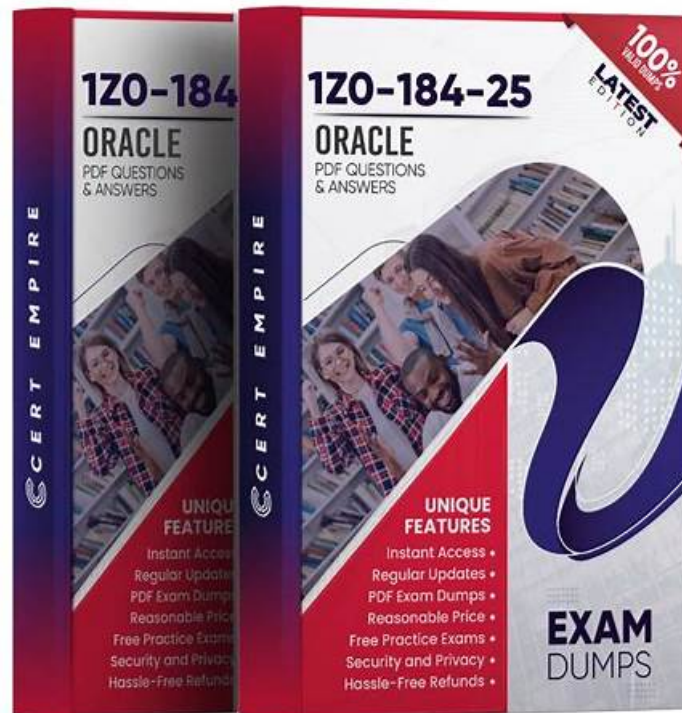


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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details

Topic 1	• Leveraging Related AI Capabilities: This section evaluates the skills of Cloud AI Engineers in utilizing Oracle's AI-enhanced capabilities. It covers the use of Exadata AI Storage for faster vector search, Select AI with Autonomous for querying data using natural language, and data loading techniques using SQL Loader and Oracle Data Pump to streamline AI-driven workflows.
Topic 2	• Using Vector Indexes: This section evaluates the expertise of AI Database Specialists in optimizing vector searches using indexing techniques. It covers the creation of vector indexes to enhance search speed, including the use of HNSW and IVF vector indexes for performing efficient search queries in AI-driven applications.
Topic 3	• Performing Similarity Search: This section tests the skills of Machine Learning Engineers in conducting similarity searches to find relevant data points. It includes performing exact and approximate similarity searches using vector indexes. Candidates will also work with multi-vector similarity search to handle searches across multiple documents for improved retrieval accuracy.

Oracle AI Vector Search Professional Sample Questions (Q26-Q31):

NEW QUESTION # 26

You want to quickly retrieve the top-10 matches for a query vector from a dataset of billions of vectors, prioritizing speed over exact accuracy. What is the best approach?

- A. Exact similarity search using flat search
- B. Relational filtering combined with an exact search
- C. Exact similarity search with a high target accuracy setting
- **D. Approximate similarity search with a low target accuracy setting**

Answer: D

Explanation:

For speed over accuracy with billions of vectors, approximate similarity search (ANN) with a low target accuracy setting (B) (e.g., 70%) uses indexes like HNSW or IVF, probing fewer vectors to return top-10 matches quickly. Exact flat search (A) scans all vectors, too slow for billions. Relational filtering with exact search (C) adds overhead without speed gains. Exact search with high accuracy (D) maximizes precision but sacrifices speed. Oracle's documentation recommends ANN for large-scale, speed-focused queries.

NEW QUESTION # 27

What is the purpose of the Vector Pool in Oracle Database 23ai?

- A. To store non-vector data types
- B. To manage database partitioning
- C. To enable longer SQL execution
- **D. To store HNSW vector indexes and IVF index metadata**

Answer: D

Explanation:

The Vector Pool in Oracle 23ai is a dedicated SGA memory region (controlled by VECTOR_MEMORY_SIZE) for vector operations, specifically storing HNSW indexes (graph structures) and IVF index metadata (e.g., centroids) (B). This optimizes memory usage for vector search, keeping critical index data accessible for fast queries. Partitioning (A) is unrelated; that's a tablespace feature. Longer SQL execution (C) might benefit indirectly from memory efficiency, but it's not the purpose. Non-vector data (D) resides elsewhere (e.g., PGA, buffer cache). Oracle allocates the Vector Pool to enhance AI workloads, ensuring indexes don't compete with other memory, a design choice reflecting vector search's growing importance.

NEW QUESTION # 28

What is the significance of splitting text into chunks in the process of loading data into Oracle AI Vector Search?

- A. To reduce the computational burden on the embedding model
- **B. To minimize token truncation as each vector embedding model has its own maximum token limit**
- C. To facilitate parallel processing of the data during vectorization

Answer: B

Explanation:

Splitting text into chunks (C) in Oracle AI Vector Search (e.g., via DBMS_VECTOR_CHAIN.UTL_TO_CHUNKS) ensures that each segment fits within the token limit of embedding models (e.g., 512 tokens for BERT), preventing truncation that loses semantic content. This improves vector quality for similarity search. Reducing computational burden (A) is a secondary effect, not the primary goal. Parallel processing (B) may occur but isn't the main purpose; chunking is about model compatibility. Oracle's documentation emphasizes chunking to align with embedding model constraints.

NEW QUESTION # 29

Which PL/SQL package is primarily used for interacting with Generative AI services in Oracle Database 23ai?

- A. DBMS_ML
- B. DBMS_VECTOR_CHAIN
- C. DBMS_GENAI
- **D. DBMS_AI**

Answer: D

Explanation:

Oracle Database 23ai introduces DBMS_AI as the primary PL/SQL package for interacting with Generative AI services, such as OCI Generative AI, enabling features like natural language query processing (e.g., Select AI) and AI-driven insights. DBMS_ML (B) focuses on machine learning model training and management, not generative AI. DBMS_VECTOR_CHAIN (C) supports vector processing workflows (e.g., document chunking, embedding), but it's not the main interface for generative AI services. DBMS_GENAI (D) is not a recognized package in 23ai documentation. DBMS_AI's role is highlighted in Oracle's AI integration features for 23ai.

NEW QUESTION # 30

What is the primary difference between the HNSW and IVF vector indexes in Oracle Database 23ai?

- A. HNSW guarantees accuracy, whereas IVF sacrifices performance for accuracy
- B. HNSW is partition-based, whereas IVF uses neighbor graphs for indexing
- **C. HNSW uses an in-memory neighbor graph for faster approximate searches, whereas IVF uses the buffer cache with partitions**
- D. Both operate identically but differ in memory usage

Answer: C

NEW QUESTION # 31

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